

General Principles of the Stabilization of the Beta  
Solid Solution in Titanium Alloys, by N. V. Ageyev,  
L. A. Petrova, 2 pp.

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1961, pp 359-360.

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A New Route for the Synthesis of Steroid Compounds,  
The Total Synthesis of DL-8-Isoestrone, by V. N. [REDACTED]  
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Hydrogenation of Unsaturated Compounds at Constant  
Solution Concentration, by D. V. Sokol'skiy, G. F.  
Tret'yakova, 2 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXVIII, No 2,  
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Adsorption of Nitrogen, Argon and Crypton on Various  
Surfaces and Determination of Surface Area, by  
M. G. Kaganer.

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No 2, 1961, pp 405-408.

U.K. Atomic Energy Authority  
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New Data on Lower Devonian Deposits of East  
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No 2, 1964, pp 419-421.

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The Absolute Age of the Detrital Part of  
the Arenaceous-Siltstone Deposits of the  
Southwest of Central Asia, by A. B. Vistelius,  
A. Ya. Krylov, 4 pp.

RUSSIAN, per, Dok Ak Nauk, Vol CXXXVIII,  
No 2, 1962, pp 422-425.

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The History of the Development of the Major  
Structures of the Western Flank of the  
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No 2, 1964, pp 426-.

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Zinciferrous Oligonite from the Sherlov  
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No 2, 1964, pp 429-430.

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Accumulation in Northwest Asia, by  
V. V. Lavrov, 4 pp.

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New Charts of the Cotidal Lines of Semi-Diurnal Tidal Waves ( $M_2$  and  $S_2$ ) for the Pacific Ocean, by K. T. Bogdanov, 4 pp.

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No 2, 1961, pp 445-447.

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On The Theory of Optimal Tracking, by  
D. L. Kalendzheridze, 6 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXXVIII,  
No 3, 1961, pp 529-532. 9677433

FTD-TT-62-494

Sci - Phys

10 Jul 62

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An Unsteady Flow Problem in Magnetic Hydrodynamics,  
by D. V. Sharikadze,

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pp 568-571.

NASA TT F-8046

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Sci  
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On the Instability of a Nonuniform Rarefied Plasma  
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R. Z. Sagdeev,

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No 3, 1961, pp 361-383.

NASA TT F-8044

JPRS 10607  
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A General Method for Determining the Optimum  
Distributions for Line Antennas, by  
V. L. Pokrovskiy, 6 pp.

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No 3, 1961, pp 584-586. 967:048

FTD-TT-61-228

FTD-MCI-182611

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Sci - Electron

15 Feb 62

The Theory of Fronts, by L. N. Gutman,  
L. N. Malko, 3 pp.

<sup>SSK</sup>  
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No 3, 1962, pp 587-590

AGI

*NLU M 5012*

Sci

Feb 63

62-25674

Akhrem, A. A. and Kuznetsova, A. I.  
THE EMPLOYMENT OF THIN-LAYER CHROMA-  
TOGRAPHY. [1962] 17p. 11 refs.  
Order from OTS or SLA \$1.10 62-25674

Trans. of Akademiya Nauk SSSR. Doklady, 1961,  
v. 135, no. 3, p. 591-594.

DESCRIPTION: Steroids. Separation. \*Chromato-  
graphy. Thin layer. Sulfuric acid.

Two examples of separation of epimeric steroid oxides  
are cited.

(Chemistry--Analytical, TT, v. 3, no. 2)

I. Akhrem, A. A.  
II. Kuznetsova, A. I.  
III. Translations, New York

Kinetics of the Dehydrogenation of Ethylbenzene to  
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1961, pp 605-607.

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The Polymerization of Nitroethylene by  $\gamma$ -Rays,  
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Perekalin, 5 pp.

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No 3, 1961, pp 611-620. 9677420

FTD-TT-62-296

Sci - Chem, Phys

202,199

10 Jul 62

Tatevskii, V. M., Spiridonov, V. P., and Akishin,  
P. A.

A FEATURE OF THE INTERATOMIC DISTANCES IN  
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IN THE PERIODIC SYSTEM OF ELEMENTS. [1962]  
[7]p. 15 refs.

Order from OTS or SLA \$1.10

63-13861

Trans. of Akad[emiya] Nauk SSSR (Doklady, 1961,  
v. 138, no. 3, p. 621-624.

DESCRIPTORS: \*Halides, \*Molecular structure, Group  
I elements, Group II elements, Group IV elements.

(Chemistry--Physical, TT, v. 10, no. 3)

63-13861

- I. Tatevskii, V. M.
- II. Spiridonov, V. P.
- III. Akishin, P. A.
- IV. Translations, New York

Office of Technical Services

Spores and Pollen of Triassic Deposits  
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The Mesozoic Flora of the South Yakutsk Coal  
Basin and Its Stratigraphic Range, by  
R. Z. Genkina, 3 pp.

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Underlying Deposits in the North Caucasus,  
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No 3, 1962, pp 639-642.

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Chuy Anticlinorium of Rudnyy Altay,  
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RUSSIAN, per, Dok Ak Nauk, Vol CXXXVIII,  
No 3, 1962, pp 643-646.

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New Data on the Upper Pliocene fo the  
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3 pp.

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Composition of Microfauna of Nutrient-rich Regions  
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Rock-Forming and Paleogeographic Importance,  
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No 3, 1962, pp 655-658.

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I. M. Khoreva, R. Ye. Giterman, 3 pp.

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Silicate Water and Its place in Horizontal.  
Hydrochemical Zoning, by K. V. Filatov,  
4 pp.

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No 3, 1962, pp 663-666.

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The Problem of Recrystallization in Crystal-  
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4 pp.

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Quartz-Feldspar Metasomatites in Sharn Deposits,  
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No 3, 1962, pp 671-673

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The Concentration of Thorium Isotopes in the  
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Nikolayev, K. F. Lazarev, 2 pp.

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No 3, 1962, pp 674-676

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On the Integral Representation of Jost,  
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3 PP.

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No 4, 1961, pp 809-812.

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Sov Phys - Dok  
Vol VI, No 6

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182, ~~177~~

The Heat Effect of the Hydrolysis of Alkyl-  
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Pavlov.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXXXVIII,  
No 5, 1953, pp 811-814.

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The Boundary-Value Problem of the Propagation  
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Stratified Anisotropic Dissipative Medium,  
by P. E. Krasnushkin, 4 pp.

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No 4, 1961, pp 813-816.

SLA 62-33003

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NASA T-8-8105

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Sharikova,

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pp 817-819.

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The Reciprocity Law and the Quasi-Stationary  
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Fridkin, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXXVIII,  
No 4, 1961, pp 820-823.

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182, 676

Angular Distribution of Sputtered Particles on  
Irradiation of a Single Crystal by an Ion Beam, by  
V. A. Molchanov, V. G. Tel'kovskiy, V. M. Chicherov,  
2 pp

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXXVIII, No 4,  
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Sov Phys - Dok  
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Investigation of the Carbon Concentration in a  
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Austenite, by L. I. Kogan, R. I. Entin, 2 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXXVIII, No 4,  
1961, pp 826-.

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Sov Phys - Dok  
Vol VI, No 6

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Isomerization and Dehydrogenation of the  
Tetrahydrofuran Ring, by I. F. ~~Bel'skiy~~ Bel'skiy,  
N. I. Shuikin, 2 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, a Vol CXXXVIII,  
No 4, 1961, pp 829, 830.

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62-12145

Gol'dshtein, I. P., Faizl, N. Kh. and others.  
COMPLEXES OF DIPHENYLETHYLENE WITH TIN  
TETRACHLORIDE AND ORGANOTIN CHLORIDES.

[1961] 5p.

Order from ATS \$7.50

ATS-02N57R

Trans. of Akad[emiya] Nauk SSSR, Doklady, 1961,  
v. 138, no. 4, p. 839-842.

DESCRIPTORS: \*Complex compounds, \*Styrenes, \*Tin  
compounds, \*Chlorides, Metalorganic compounds,  
Phenyl radicals, Ethylenes.

- I. Gol'dshtein, I. P.
- II. Faizl, N. Kh.
- III. ATS-02N57R
- IV. Associated Technical  
Services, Inc.,  
East Orange, N. J.

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(Chemistry--Organic, TT, v. 7, no. 3)

Office of Technical Services

Kozina, M. P., Lukina, M. Yu. and others.  
THE HEATS OF COMBUSTION OF SOME PHENYL-  
CYCLOPROPANES. [1962] 5p. 15 refs.  
Order from OTS or SLA \$1.10

63-15131

- I. Kozina, M. P.
- II. Lukina, M. Yu.
- III. Translations, New York

Trans. of Akad[emiya] Nauk SSSR. (Doklady, 1961,  
v. 138, no. 4, p. 843-845.

DESCRIPTORS: Heat of reaction, \*Combustion,  
\*Phenyl radicals, \*Propanes, Thermochemistry.

The present paper reports the results of a determina-  
tion of the heat of combustion of phenylcyclopropane,  
1,1-diphenylcyclopropane, and the two stereoisomeric  
1,2-diphenylcyclopropanes.

(Chemistry--Physical, TT, v. 9, no. 12)

Office of Technical Services

63-15129

Rabinovich, I. B., Tel'noti, V. I. and others.  
THE THERMOCHEMISTRY OF THE REACTION OF  
HEXAETHYLDISTANNANE WITH BENZOYL  
PEROXIDE. [1962] [7]p. 14 refs.  
Order from OTS or SLA \$1.10

63-15129

Trans. of Akad[emiya] Nauk SSSR, Doklady, 1961,  
v. 138, no. 4, p. 852-855.

DESCRIPTORS: \*Thermochemistry, Chemical reac-  
tions, \*Benzoyl radicals, Heat, \*Peroxides, \*Tin  
compounds, Ethyl radicals, \*Metalorganic compounds.

The present paper is a study of the thermochemistry of  
the reaction between hexaethyldistannane and benzoyl  
peroxide, with dibutyl phthalate employed as the  
solvent.

(Chemistry--Physical, TT, v. 9, no. 12)

- I. Rabinovich, I. B.
- II. Tel'noti, V. I.
- III. Translation, New York

Office of Technical Services

62-12121

Dubinín, M. M.  
COMPOSITION OF UNIT CELLS AND MAXIMUM  
ADSORPTION VOLUMES OF DEHYDRATED  
SYNTHETIC ZEOLITE CRYSTALS. [1961] 5p.  
Order from ATS \$9.00      ATS-71N56R

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1961,  
v. 138, no. 4, p. 866-869.

DESCRIPTORS: \*Organolites, \*Crystals, Adsorption.

(Chemistry--Organic, TT, v. 7, no. 3)

I. Dubinín, M. M.  
II. ATS-71N56R  
III. Associated Technical  
Services, Inc.,  
East Orange, N. J.

Office of Technical Services

Zhdanov, S. P. and Koromal'di, E. V.  
SELECTIVE SORPTION ON POROUS GLASSES.  
Jan 62, 3p. 3 refs.  
Order from KCB in v. 2, no. 1, \$15.00/year

Trans. of Akademiya Nauk SSSR. Doklady, 1961,  
v. 138, no. 4, p. 870ff.

DESCRIPTORS: \*Glass, \*Porous filters, Adsorption,  
Acids, \*Absorbents, \*Chemical engineering.

(Chemistry--Physical, TT, v. 8, no. 10)

62-34307

- I. Zhdanov, S. P.
- II. Koromal'di, E. V.
- III. International Chemical  
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Office of Technical Services

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THE FORMATION OF HYDRAZINE BY THE ACTION OF  
 $\gamma$ -RADIATION ON SOLID AND LIQUID AMMONIA,  
BY YU. A. SOROKIN, S. YA. ~~RXXMK~~ PSHEZHETSKIY,  
6 PP.

RUSSIAN, PER, DOK AK NAUK SSSR, VOL CXXXVIII,  
NO 4, 1961, PP 880-883. 9677933

FTD-TT-62-838

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*AEC* (LIB-Trans-264) THE APPLICABILITY OF THE  
ALLEN'S MODEL TO THE RADIOLYSIS OF AQUEOUS SOLUTIONS.  
Firsov, V. G.; Ershler, B. H. Translated by V. Gavriloff  
(Australian Atomic Energy Commission Research Establish-  
ment, Lucas Heights), from Dokl. Akad. Nauk SSSR; 138: No. 4,  
884-5(1961). 20p. 24Dep. CFSTI (U. S. Sales Only).

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26Chemistry (radio- and radiation); translations 2707E

28MN-1 29NP NSA

Phlegmatization of Explosives, by G. T. Afanas'yev, V.  
K. Bobolev, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXXVIII,  
No 4, 1961, p 886-887

AF 1452419

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RUSSIAN, per, Dok Ak Nauk, Vol CXXXVIII,  
No 4, 1962, pp 890-892.

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New Data on the Paleogeography of the Quaternary  
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Results of Radiocarbon Investigations, by  
V. D. Dibner, 1 pp.

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No 4, 1962, pp 893-894.

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The Age of the Zaunguzsk Formation of  
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G. F. Shneyder, 2 pp.

RUSSIAN, per, Dok Ak Nauk, CXXXVIII,  
No 4, 1962, pp 895-896.

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The Problem of Small Intrusive Bundles  
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Pyrite-Polymetallic Fields of Rudnyy Altay,  
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RUSSIAN, per, Dok Ak Nauk, CXXXVIII,  
No 4, 1962, pp 897-899.

AGI

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The Central Sikhote-Alin Fault (Displacement),  
by B. A. Ivanov, 4 pp.

RUSSIAN, per, Dok Ak Nauk, Vol CXXXVIII,  
No 4, 1962, pp 900-903.

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The Baku Deposits of the Border Scarp Zone  
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Yu. M. Kleyner, P. V. Fedorov, 2 pp.

RUSSIAN, per, Dok Ak Nauk, Vol CXXXVIII,  
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New Data on the Stratigraphy of the Schists  
of the Middle Course of the Malka, by  
I. S. Krasivskaya, 4 pp.

RUSSIAN, per, Dok Ak Nauk, Vol CXXXVIII,  
No 4, 1962, pp 906-907.

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Loess-Like Loams of the Western Slope of the  
Volga Highlands (Using the Loess-Like Loams  
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RUSSIAN, per, Dok Ak Nauk, Vol CXXXVIII,  
No 4, 1962, pp 910-913.

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Subformation of the Ukraine Carpathians, by  
A. V. Maksimov, 2 pp.

RUSSIAN, per, Dok Ak Nauk, Vol CXXXVIII,  
No 4, 1962, pp 914-915.

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The Upper Permian-Lower Triassic Deposits  
of the Fore-Caucasus Platform and the  
Contiguous Regions, by M. F. Mirchink,  
N. A. Krylov, 3 pp.

RUSSIAN, per, Dok Ak Nauk, Vol CXXXVIII,  
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Characteristics of the Development of  
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3 pp.

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The Relation Between the Chemical Composition  
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RUSSIAN, per, Dok Ak Nauk, Vol CXXXVIII,  
No 4, 1962, pp 924-927.

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Spodumene Pegmatites of the Ukraine, by  
V. G. Kushev,.

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No 4, 1962, pp 928-.

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Nature of Some Structural Changes Induced in the  
Adrenals by Ionizing Radiation, by B. M.  
Graevskaya, R. N. Shchedrina, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXXVIII,  
No 6, 1961, pp 941-944.

AIP  
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Vol VI, No 6

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Anaphase Bridges and Acentric Fragments as  
Biological Parameters of Radiation Dose for  
Mammals, by I. M. Shapiro, I. B. Smirnova, 2 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXVIII, No 4,  
1961, pp 945.-

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The Effect and Aftereffect of the Radioactive  
Isotope Strontium-90 on Plants, by R. A.  
Shirshova, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXXVIII,  
No 4, 1961, pp 2 548-.

AIP  
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[1962] [5]p. 12 refs.  
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DESCRIPTORS: \*Photosensitivity, \*Chlorophylls, Solutions, Photosynthesis, Photochemical reactions, Pyridines, \*Organic solvents.

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OTS T-63-11750

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DESCRIPTORS: \*Complex compounds, \*Molecular  
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Razuvaev, G. A., Latyaeva, V. N., and Vyshinskaya, L. I.

REACTIONS OF BENZOYL PEROXIDE WITH TITANOCENE DERIVATIVES [Reaktsii Peroksid Benzoina s Proizvodnyimi Titanotsena]. 29 Sep 61 [7]p. 3 refs. Order from OTS or SLA \$1.10 62-14628

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1961, v. 138 [no. 5, p. 1126-1129].

DESCRIPTORS: \*Benzoyl radicals, \*Peroxides, Metal-organic compounds, \*Titanium compounds, \*Cyclopentadiene, Pentadienes, Chemical reactions, Benzozates, Benzenes, Propanols, Alcohols.

No breakdown of the titanocene group took place in the reaction of benzoyl peroxide with  $Cp_2Ti$  in the cold in benzene or isopropanol solution. There was an instantaneous change in the color of the solution from dark green to bright yellow; no  $CO_2$  was evolved in the (Chemistry--Organic, TT, v. 8, no. 6) (over)

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Order from TIB \$1.45

Trans. in German of Akademiya Nauk SSSR, (Doklady,  
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DESCRIPTORS: \*Genetics, \*Mineral oils, Classification.

(Chemistry--Organic, TT, v. 9, no. 11)

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